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1 5b---Persistence and Change: Perception of content, structure, and presentation changes in Web-based hypertext

Luis Francisco-Revilla, Frank M. Shipman, Richard Furuta, Unmil Karadkar, Avital Arora
September 2001 **Proceedings of the twelfth ACM conference on Hypertext and Hypermedia**
Publisher: ACM Press

Full text available: pdf(339.22 KB) Additional Information: full citation, abstract, references, citings, index terms

The Web provides access to a wide variety of information but much of this information is fluid; it changes, moves, and occasionally disappears. Bookmarks, paths over Web pages, and catalogs like Yahoo! are examples of page collections that can become out-of-date as changes are made to their components. Maintaining these collections requires that they be updated continuously. Tools to help in this maintenance require an understanding of what changes are important, such as when pages no longer ...

Keywords: Walden's paths, fluid documents, managing fluid Web pages, meta-document, perception of change

2 Intertwining perspectives and negotiation

Gerry Stahl, Thomas Herrmann
November 1999 **Proceedings of the international ACM SIGGROUP conference on Supporting group work**
Publisher: ACM Press

Full text available: pdf(1.87 MB) Additional Information: full citation, abstract, references, citings, index terms

Cooperative work typically involves both individual and group activities. Computer support for perspectives allows people to view and work in a central information repository within personal contexts. However, work in personal perspectives encourages divergent thinking. Negotiation in group perspectives is needed to converge on consensus, shared understanding, and cooperation. Negotiation processes on their own can delay progress. By intertwining perspectiv ...

Keywords: CSCL, WebGuide, negotiation, perspectives

3 Supporting cooperative and personal surfing with a desktop assistant

Hannes Marais, Krishna Bharat

October 1997 **Proceedings of the 10th annual ACM symposium on User interface software and technology**

Publisher: ACM Press

Full text available: pdf(1.37 MB) Additional Information: full citation, references, citings, index terms

Keywords: WWW, annotation, asynchronous, barcodes, bookmarks, browser, browserware, collaboration, community knowledge, desktop assistant, indexing

4 m-links: An infrastructure for very small internet devices

Bill N. Schilit, Jonathan Trevor, David M. Hilbert, Tzu Khiau Koh

July 2001 **Proceedings of the 7th annual international conference on Mobile computing and networking**

Publisher: ACM Press

Full text available: pdf(680.78 KB) Additional Information: full citation, abstract, references, citings, index terms

In this paper we describe the Mobile Link (m-Links) infrastructure for utilizing existing World Wide Web content and services on wireless phones and other very small Internet terminals. Very small devices, typically with 3-20 lines of text, provide portability and other functionality while sacrificing usability as Internet terminals. In order to provide access on such limited hardware we propose a small device web navigation model that is more appropriate than the desktop computer's web brows ...

Keywords: middleware, proxy, web phones, wireless, wireless web

5 SOAP: social agents providing people with useful information

Angi Voss, Thomas Kreifelts

November 1997 **Proceedings of the international ACM SIGGROUP conference on Supporting group work: the integration challenge**

Publisher: ACM Press

Full text available: pdf(988.33 KB) Additional Information: full citation, references, citings, index terms

Keywords: World Wide Web, collaborative filtering, multi-agent systems, recommender systems, software agents

6 Scratchpad: mechanisms for better navigation in directed Web searching

Dale Newfield, Bhupinder Singh Sethi, Kathy Ryall

November 1998 **Proceedings of the 11th annual ACM symposium on User interface software and technology**

Publisher: ACM Press

Full text available: pdf(88.98 KB) Additional Information: full citation, references, citings, index terms

Keywords: World Wide Web, hypertext navigation, information navigation, search technique, user interface

7 Student posters: Multiple hierarchies in user workspace

Richard Boardman
March 2001 **CHI '01 extended abstracts on Human factors in computing systems**
Publisher: ACM Press
Full text available: pdf(197.00 KB) Additional Information: full citation, abstract, references, index terms

Desktop workspaces contain many user-defined hierarchies such as the file system, email folders and web bookmark folders. Previous studies have shown that users encounter many overheads in the management and navigation of individual hierarchies. In contrast, this paper presents an exploratory study of how users work with the *multiple* hierarchies of their workspace.The organisations of three hierarchies (file system, email folders and web bookmark folders) were compared for ten users. The ...

Keywords: desktop, multiple hierarchies, workspace organisation

8 An empirical evaluation of user interfaces for topic management of Web sites

Brian Amento, Will Hill, Loren Terveen, Deborah Hix, Peter Ju
May 1999 **Proceedings of the SIGCHI conference on Human factors in computing systems: the CHI is the limit**
Publisher: ACM Press
Full text available: pdf(2.07 MB) Additional Information: full citation, abstract, references, citings, index terms

Topic management is the task of gathering, evaluating, organizing, and sharing a set of web sites for a specific topic. Current web tools do not provide adequate support for this task. We created the *TopicShop* system to address this need. TopicShop includes (1) a webcrawler that discovers relevant web sites and builds site profiles, and (2) user interfaces for exploring and organizing sites. We conducted an empirical study comparing user performance with TopicShop vs. Ya ...

Keywords: computer supported cooperative work, human-computer interaction, information access, information retrieval, information visualization, social filtering

9 WebACE: a Web agent for document categorization and exploration

Eui-Hong Han, Daniel Boley, Maria Gini, Robert Gross, Kyle Hastings, George Karypis, Vipin Kumar, Bamshad Mobasher, Jerome Moore
May 1998 **Proceedings of the second international conference on Autonomous agents**
Publisher: ACM Press
Full text available: pdf(1.10 MB) Additional Information: full citation, references, citings, index terms

10 Technical Papers: Capturing knowledge of user preferences: ontologies in recommender systems

Stuart E. Middleton, David C. De Roure, Nigel R. Shadbolt
October 2001 **Proceedings of the 1st international conference on Knowledge capture K-CAP '01**
Publisher: ACM Press
Full text available: pdf(261.93 KB) Additional Information: full citation, abstract, references, citings, index terms

Tools for filtering the World Wide Web exist, but they are hampered by the difficulty of capturing user preferences in such a dynamic environment. We explore the acquisition of user profiles by unobtrusive monitoring of browsing behaviour and application of

supervised machine-learning techniques coupled with an ontological representation to extract user preferences. A multi-class approach to paper classification is used, allowing the paper topic taxonomy to be utilised during profile constructio ...

Keywords: machine learning, ontology, recommender system, user profiling



11 Web mining research: a survey



Raymond Kosala, Hendrik Blockeel
June 2000 **ACM SIGKDD Explorations Newsletter**, Volume 2 Issue 1
Publisher: ACM Press
Full text available: pdf(1.58 MB) Additional Information: full citation, citings, index terms

Keywords: Web, data mining, information extraction, information retrieval



12 Siteseer: personalized navigation for the Web



James Rucker, Marcos J. Polanco
March 1997 **Communications of the ACM**, Volume 40 Issue 3
Publisher: ACM Press
Full text available: pdf(263.04 KB) Additional Information: full citation, citings, index terms



13 Information archiving with bookmarks: personal Web space construction and organization



David Abrams, Ron Baecker, Mark Chignell
January 1998 **Proceedings of the SIGCHI conference on Human factors in computing systems**
Publisher: ACM Press/Addison-Wesley Publishing Co.
Full text available: pdf(1.15 MB) Additional Information: full citation, references, citings, index terms

Keywords: WWW, bookmark, design, empirical study, information space, survey



14 A distributed multi-agent system for collaborative information management and sharing



James R. Chen, Shawn R. Wolfe, Stephen D. Wragg
November 2000 **Proceedings of the ninth international conference on Information and knowledge management**
Publisher: ACM Press
Full text available: pdf(702.39 KB) Additional Information: full citation, references, index terms

Keywords: World Wide Web, agent, bookmark, collaboration, information management, learning



15 Personal ontologies for web navigation



Jason Chaffee, Susan Gauch
November 2000 **Proceedings of the ninth international conference on Information and**

knowledge management
Publisher: ACM Press
Full text available: pdf(319.34 KB) Additional Information: full citation, references, citings, index terms

Keywords: OBIWAN, Web navigation, classification, ontologies, ontology, personalization

16 SONIA: a service for organizing networked information autonomously
Mehran Sahami, Salim Yusufali, Michelle Q. W. Baldonaldo
May 1998 **Proceedings of the third ACM conference on Digital libraries**
Publisher: ACM Press
Full text available: pdf(1.29 MB) Additional Information: full citation, references, citings, index terms

17 Implicit interest indicators
Mark Claypool, Phong Le, Makoto Wased, David Brown
January 2001 **Proceedings of the 6th international conference on Intelligent user interfaces**
Publisher: ACM Press
Full text available: pdf(618.26 KB) Additional Information: full citation, abstract, references, citings, index terms

Recommender systems provide personalized suggestions about items that users will find interesting. Typically, recommender systems require a user interface that can ``intelligently'' determine the interest of a user and use this information to make suggestions. The common solution, ``explicit ratings'', where users tell the system what they think about a piece of information, is well-understood and fairly precise. However, having to stop to enter explicit ratings can alter normal patterns ...

18 TopicShop: enhanced support for evaluating and organizing collections of Web sites
Brian Amento, Loren Terveen, Will Hill, Deborah Hix
November 2000 **Proceedings of the 13th annual ACM symposium on User interface software and technology**
Publisher: ACM Press
Full text available: pdf(526.36 KB) Additional Information: full citation, references, citings, index terms

19 Visualizing implicit queries for information management and retrieval
Mary Czerwinski, Susan Dumais, George Robertson, Susan Dziadosz, Scott Tiernan, Maarten van Dantzich
May 1999 **Proceedings of the SIGCHI conference on Human factors in computing systems: the CHI is the limit**
Publisher: ACM Press
Full text available: pdf(94.19 KB) Additional Information: full citation, abstract, references, citings, index terms

In this paper, we describe the use of similarity metrics in a novel visual environment for storing and retrieving favorite web pages. The similarity metrics, called *Implicit Queries,* are used to automatically highlight stored web pages that are related to the currently selected web page. Two experiments explored how users manage their personal web information space with and without the Implicit Query highlighting and later retrieve their stored web pages. When storing and organ ...

Keywords: 3D, categorization, classification, information management, information retrieval, information visualization, similarity

20 Extending document management systems with user-specific active properties



Paul Dourish, W. Keith Edwards, Anthony LaMarca, John Lamping, Karin Petersen, Michael Salisbury, Douglas B. Terry, James Thornton

April 2000 **ACM Transactions on Information Systems (TOIS)**, Volume 18 Issue 2

Publisher: ACM Press

Full text available: pdf(166.43 KB) Additional Information: full citation, abstract, references, citings, index terms

Document properties are a compelling infrastructure on which to develop document management applications. A property-based approach avoids many of the problems of traditional heierarchical storage mechanisms, reflects document organizations meaningful to user tasks, provides a means to integrate the perspectives of multiple individuals and groups, and does this all within a uniform interaction framework. Document properties can reflect not only categorizations of documents and document use ...

Keywords: active properties, component software, document management systems, document services, user experience

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